

WHAT IS CLAIMED IS:

1 1. A method of treating a focal muscle spasm, comprising
2 administering, by intramuscular injection, a therapeutically effective dose of an
3 immunotoxin conjugate to a muscle of said focal muscle spasm, wherein said
4 immunotoxin conjugate comprises an antibody conjugated to a toxin selected
5 from the group consisting of: ricin and abrin, wherein said antibody is
6 selectively reactive, under immunologically reactive conditions, to a nicotinic
7 acetylcholine receptor (nAChR).

1 2. The method of claim 1, wherein the antibody is a monoclonal
2 antibody.

1 3. The method of claim 1, wherein said mammalian acetylcholine
2 receptor is a human acetylcholine receptor.

1 4. The method of claim 1, wherein said toxin is ricin.

1 5. The method of claim 1, wherein the focal muscle spasm is selected
2 from the group consisting of: blepharospasm, cervical dystonia, hand dystonia,
3 limb dystonia, hemifacial spasm, bruxism, strabismus, VI nerve palsy,
4 spasmodic dysphonia, and oromandibular dystonia.

1 6. A method of treating a focal muscle spasm, comprising
2 administering, by intramuscular injection, a therapeutically effective dose of an
3 immunotoxin conjugate to a muscle of said focal muscle spasm, wherein said
4 immunotoxin conjugate comprises an antibody conjugated to a galactose
5 binding moiety and a toxin selected from the group consisting of: ricin-A and
6 abrin-A, wherein said antibody is selectively reactive, under immunologically
7 reactive conditions, to a nicotinic acetylcholine receptor (nAChR).

1 7. The method of claim 6, wherein said galactose binding moiety is
2 selected from the group consisting of: ricin-B and abrin-B.

1 8. The method of claim 6, wherein the antibody is a monoclonal
2 antibody.

1 9. The method of claim 6, wherein said mammalian acetylcholine
2 receptor is a human acetylcholine receptor.

1 10. The method of claim 6, wherein said toxin is ricin.

1 11. The method of claim 6, wherein the focal muscle spasm is selected
2 from the group consisting of: blepharospasm, cervical dystonia, hand dystonia,
3 limb dystonia, hemifacial spasm, bruxism, strabismus, VI nerve palsy,
4 spasmodic dysphonia, and oromandibular dystonia.

1 12. An immunotoxin conjugate, comprising an antibody conjugated to a
2 toxin selected from the group consisting of: ricin and abrin, wherein said
3 antibody is selectively reactive, under immunologically reactive conditions, to a
4 mammalian nicotinic acetylcholine receptor.

1 13. The immunotoxin of claim 12, wherein the antibody is a monoclonal
2 antibody.

1 14. The immunotoxin conjugate of claim 12, wherein said mammalian
2 acetylcholine receptor is a human acetylcholine receptor.

1 15. The immunotoxin conjugate of claim 12, wherein said toxin is ricin.